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**TITLE:** Removable and horizontally movable can holder for refrigerators

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**INVENTOR-INFORMATION:**

<b>NAME</b>	<b>COUNTRY</b>
MARTINOIA, ROSANNA	IT
BRAMBILLA, ENRICO	IT

**ASSIGNEE-INFORMATION:**

<b>NAME</b>	<b>COUNTRY</b>
WHIRLPOOL CO	US

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**ABSTRACT:**

**CHG DATE=20030305 STATUS=O> A can holder (11) for refrigerator doors (1), comprising at least one cradle (12) for supporting a can (L), said cradle (12) being: a) provided with means (14) for its hooking to a supporting part (8)**

**present in the door (1); b) inclined to the horizontal and to the vertical when in use, so as to support the can L with its axis inclined upwards; c) provided with antirotation means (15) which bear on the door to also obtain and maintain the inclination (Figure 1). <IMAGE>**



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(71) Applicant: WHIRLPOOL CORPORATION  
Benton Harbor Michigan 49022 (US)

(72) Inventors:  
• Martinola, Rosanna  
V.le G. Borghi 27, 21025 Comerio (IT)  
• Brambilla, Enrico  
V.le G. Borghi 27, 21025 Comerio (IT)

(74) Representative: Guerci, Alessandro  
Whirlpool Europe S.r.l.  
Patent Department  
Viale G. Borghi 27  
21025 Comerio (VA) (IT)

(54) Removable and horizontally movable can holder for refrigerators

(57) A can holder (11) for refrigerator doors (1), comprising at least one cradle (12) for supporting a can (L), said cradle (12) being: a) provided with means (14) for its hooking to a supporting part (8) present in the door

(1); b) inclined to the horizontal and to the vertical when in use, so as to support the can L with its axis inclined upwards; c) provided with antirotation means (15) which bear on the door to also obtain and maintain the inclination (Figure 1).

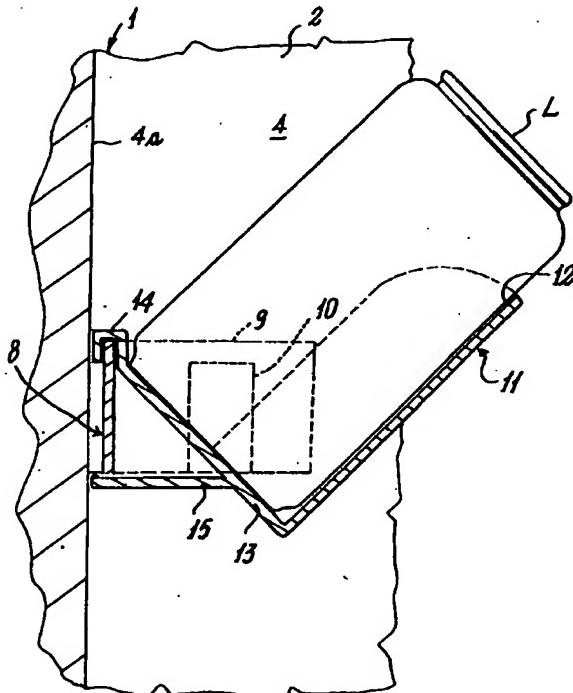


FIG. 4

**Description**

[0001] The present invention relates to a can holder for refrigerators.

[0002] Refrigerator doors are known to present removable trays, provided with side walls, in which drink cans are usually placed to cool them. The cans are located vertically on the trays, however the presence of the side wall makes it difficult both to position them on and remove them from the tray. There is the additional drawback that if the tray is not completely occupied, the cans move noisily at each door opening/closure.

[0003] The main object of the present invention is to provide a can holder for refrigerator doors which enables the cans to be located such that they do not move on opening and closing the refrigerator door, while being comfortably withdrawable and positionable.

[0004] A further object of the present invention is to provide a can holder which enables better use to be made of the space defined by the refrigerator door.

[0005] These and further objects which will be more apparent from the ensuing detailed description are attained by a can holder in accordance with the teachings of the accompanying claims.

[0006] The invention will be better understood from the following detailed description, which is provided by way of non-limiting example and is given with reference to the accompanying drawing, in which:

Figure 1 is a schematic perspective view of a can holder of the invention mounted in the interior of a refrigerator door; this figure also shows by dashed and dotted lines the can holder while being removed from the door;

Figure 2 is a schematic perspective view of two side-by-side can holders mounted in the interior of the refrigerator door;

Figure 3 is a schematic horizontal section on the plane A-A of Figure 1;

Figure 4 is a vertical section through the can holder applied to the door (on the inner side thereof).

[0007] In the figures the reference numeral 1 indicates a generic refrigerator door the vertical lateral side walls of which are indicated by 2 and 3. These together with a lower side wall 4 and an upper side wall, this latter not shown, defines a compartment 5 in which removable trays 6 are provided in known manner. In order to be supported by the lateral side walls 2 and 3, these trays laterally present seats 10 which are closed at one end (the upper end) and are mounted on projecting parts or appendices 7 of a shape substantially mating with that of the seats and present on the inner face of the side walls 2 and 3.

[0008] In a like manner there is connected to or mounted on the door a bar-like support element 8 provided at its two ends with appendices 9 in which closed seats 10 are present, of a shape mating with the pro-

jecting parts or appendices 7.

[0009] The bar-like element 8 acts as a support for one or more can holders 11. The can holder, preferably constructed of plastic material, comprises one or more side-by-side cradles 12 for the inclined housing of cans L.

[0010] The cradles 12 comprise a concave part 12a (preferably in the form of a circular ring segment) and a common base wall 13 terminating upperly with a hook-shaped appendix 14 by which the can holder engages, removably and translatable (see arrows F1 and F2), with the bar-like support element 8 (see Figure 4).

[0011] The base wall 13 and the concave part 12a are at right angles to each other and, when in use, the base wall 13 is inclined, preferably by 35°-45° (downwards), to the vertical end wall 4a of the compartment 4. As a result, the cans L are supported upwardly inclined in the cradles, as shown in Figure 4, making it simple to withdraw them from the cradle in which they rest.

[0012] For its antirotational stability and to preserve the inclination, the base 13 of the can holder comprises below the hook-shaped appendix a transverse piece 15 which bears against the end wall 4a. The number of cradles 12 present in the can holder can be one or more, for example three as shown.

[0013] The can holder can be easily removed from its support bar 8 by lifting it (see arrow F1 in Figure 1) and can also be moved along the bar (see arrow F2 in Figure 1) if space requirements, deriving for example from the presence of a bottle of considerable height in an underlying tray 6, require it.

**Claims**

1. A can holder (11) for refrigerator doors (1), characterised by comprising at least one cradle (12) for supporting a can (L), said cradle (12) being: a) provided with means (14) for its hooking to a supporting part (8) present in the door (1); b) inclined to the horizontal and to the vertical when in use, so as to support the can L with its axis inclined upwards; c) provided with antirotation means (15) which bear on the door to also obtain and maintain the inclination.
2. A can holder as claimed in claim 1, wherein the cradle (12) presents an arcuate part (12a) and a base part (13) perpendicular to the preceding.
3. A can holder as claimed in claim 1, wherein said hooking means (14) are represented by a hook-shaped extension to the base (13) of the cradle (12).
4. A can holder as claimed in claims 1 and/or 2, wherein the antirotation means for also obtaining and maintaining the inclination are represented by a further extension (15) to the base (13) of the cradle (12), said extension (15) being located below the

hooking means (14).

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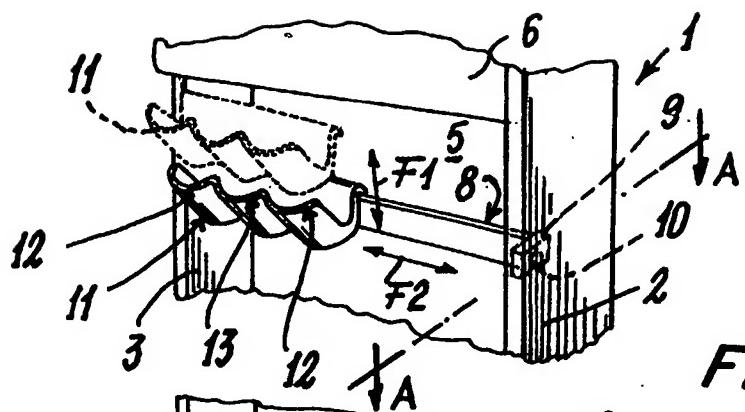


FIG. 1

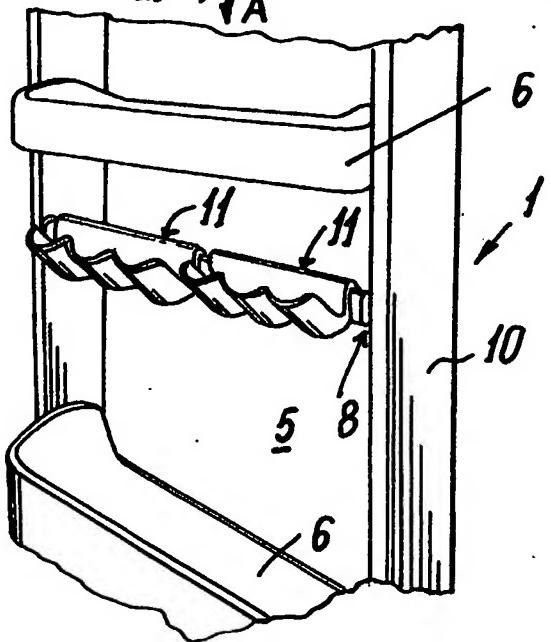


FIG. 2

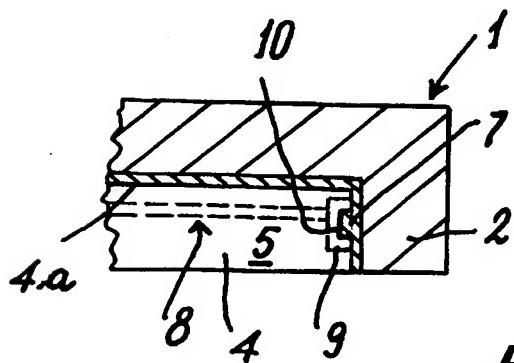


FIG. 3

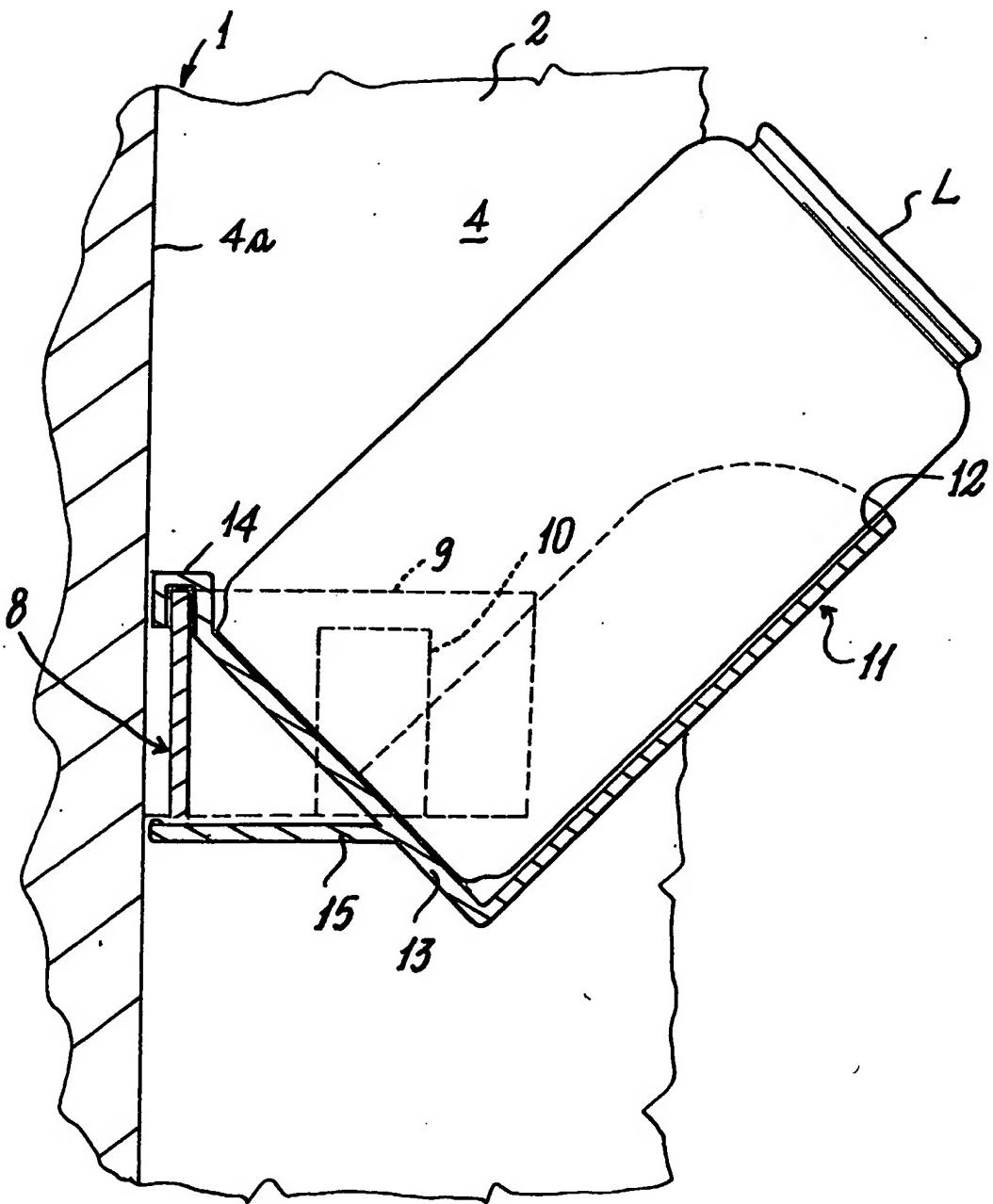


FIG. 4



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## EUROPEAN SEARCH REPORT

Application Number

EP 02 01 0292

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
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A	* abstract * * column 2, line 67 - column 3, line 13 * * figures 1-3,6 *	2,4	
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A	GB 1 381 650 A (IRE SPA) 22 January 1975 (1975-01-22)		F25D A47B
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	9 July 2002	De Graaf, J.D.	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

**ANNEX TO THE EUROPEAN SEARCH REPORT  
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EPO file on. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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